

United States Department of the Interior  
National Park Service

# National Register of Historic Places Registration Form

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in National Register Bulletin, *How to Complete the National Register of Historic Places Registration Form*. If any item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. **Place additional certification comments, entries, and narrative items on continuation sheets (NPS Form 10-900a).**

## 1. Name of Property

Historic name Powder River Bridge

Other names/site number 24PE1810

## 2. Location

street & number Milepost 6 on I-94 Frontage Road (Old US Highway 10) ☐ not for publication

city or town Seven miles southwest of Terry ☒ vicinity

State Montana code MT county Prairie code 079 zip code 59349

## 3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act, as amended,

I hereby certify that this x nomination    request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60.

In my opinion, the property x meets    does not meet the National Register Criteria. I recommend that this property be considered significant at the following level(s) of significance:

   national    statewide x local

Signature of certifying official

Date

Title

State or Federal agency and bureau

In my opinion, the property    meets    does not meet the National Register criteria.

Signature of commenting official

Date

Title

State or Federal agency and bureau

## 4. National Park Service Certification

I, hereby, certify that this property is:

Signature of the Keeper

Date of Action

   entered in the National Register

   determined eligible for the National Register

   determined not eligible for the National Register

   removed from the National Register

   other (explain:)

Powder River Bridge  
Name of Property

Prairie County, Montana  
County and State

## 5. Classification

### Ownership of Property

(Check as many boxes as apply)

|                                     |                  |
|-------------------------------------|------------------|
| <input type="checkbox"/>            | private          |
| <input type="checkbox"/>            | public - Local   |
| <input checked="" type="checkbox"/> | public - State   |
| <input type="checkbox"/>            | public - Federal |
| <input type="checkbox"/>            | private          |

### Category of Property

(Check only **one** box)

|                                     |             |
|-------------------------------------|-------------|
| <input type="checkbox"/>            | building(s) |
| <input type="checkbox"/>            | district    |
| <input type="checkbox"/>            | site        |
| <input checked="" type="checkbox"/> | structure   |
| <input type="checkbox"/>            | building(s) |
| <input type="checkbox"/>            | object      |

### Number of Resources within Property

(Do not include previously listed resources in the count.)

| Contributing | Noncontributing |              |
|--------------|-----------------|--------------|
|              |                 | buildings    |
|              |                 | sites        |
| 1            |                 | structures   |
|              |                 | Objects      |
|              |                 | buildings    |
| 1            | 0               | <b>Total</b> |

### Name of related multiple property listing

(Enter "N/A" if property is not part of a multiple property listing)

Montana's Historic Steel Truss Bridges

### Number of contributing resources previously listed in the National Register

## 6. Function or Use

### Historic Functions

(Enter categories from instructions)

TRANSPORTATION/Road-related (vehicular) =

Bridge

### Current Functions

(Enter categories from instructions)

TRANSPORTATION/Road-related (vehicular) =

Bridge

## 7. Description

### Architectural Classification

(Enter categories from instructions)

OTHER: Continuous Warren through truss

### Materials

(Enter categories from instructions)

foundation: Concrete

walls:

roof:

other: Steel, Concrete

**Narrative Description**

(Describe the historic and current physical appearance of the property. Explain contributing and noncontributing resources if necessary. Begin with a **summary paragraph** that briefly describes the general characteristics of the property, such as its location, setting, size, and significant features.)

**Summary Paragraph**

Built in 1946, the Powder River Bridge is a 3-span continuous Warren through truss. It is 633-feet in length and 28-feet wide. It rests on two concrete piers. The bridge is located on the Interstate 94 frontage road about seven miles southwest of the community of Terry, the county seat of Prairie County. The bridge has not been significantly altered since its construction and the setting surrounding the structure has not substantially changed since the 1940s. The bridge retains its distinctive trusses, concrete deck, and associated guardrails.

**Narrative Description**

The Powder River Bridge is located in the lower Yellowstone Valley of southeastern Montana. The bridge crosses the Powder River about one mile southeast of where it empties into the Yellowstone River. It is also located on the Lewis and Clark Trail about seven miles southwest of Terry, the county seat of Prairie County. The bridge is located on Cretaceous and Tertiary sediments and mudstones that is known as the Fort Union Formation. The formation consists of silts that were deposited in the inland seaway from 65 to 55 million years ago. The terrain encompassing the Powder River Bridge is rolling plains broken by drainages, gullies, small ravines, and buttes. Vegetation consists of grasslands that originally fed bison, but is now used primarily for cattle grazing and some small irrigated agricultural operations. The bridge carries the Interstate 94 frontage road, which is now known as the Lewis and Clark Trail (historically US Highway 10 – 24PE719) across the Powder River. The highway and bridge was bypassed by Interstate 94 in 1977. The Northern Pacific Railway (now Burlington Northern- Santa Fe Railroad) main line parallels the highway on the north.<sup>1</sup>

The Powder River Bridge is a continuous span Warren through truss comprised of three main spans and two steel stringer approach spans. A continuous span structure functions and appears as a single span delineated by the piers. The bridge is 633-feet in length consisting of a 203-foot main truss span and two 163-foot truss spans. The approach spans are each 50-feet in length. The bridge is 28-feet wide with a roadway width of 26-feet. The bridge rests on four solid reinforced concrete piers with extended caps. The abutments are also reinforced concrete.

The superstructure of the Powder River Bridge is comprised as follows: The upper and lower chords are laced channel sections with batten plates. The verticals are I-beams, while the diagonals are laced channel sections with batten plates and channel sections with batten plates. The top lateral braces and struts are laced angle sections while the top sway braces are angle sections. The portal braces are laced angle sections with gusset plates. The concrete slab deck is supported by six lines of steel I-beam stringers resting atop steel I-beam floor beams. The bottom lateral braces are angle sections and the bottom sway braces are laced angle sections. The deck is flanked by raised concrete curbs. Guardrails are channel sections mounted on I-beam posts bolted to concrete posts projecting laterally to the deck.

The approach spans are steel stringer structures each 50-feet in length. Their ends rest on the abutments and piers. The concrete slab decks are supported by six lines of steel I-beam stringers. The decks are flanked by raised concrete curbs with channel section railings mounted on I-beam posts. The endposts are reinforced concrete with decorative vertical grooves on two sides and recessed panels adjacent to the roadway.

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<sup>1</sup> David Alt and Donald W. Hyndman, *Roadside Geology of Montana*, (Missoula: Mountain Press Publishing, 1991), 363-364.

**Integrity**

Other than routine maintenance, there have been no substantial changes to the Powder River Bridge since its construction in 1946. The bridge is the standard riveted steel continuous Warren through truss design developed by Montana State Highway Department in 1933. This particular design was adapted and utilized for Warren through truss bridges from 1933 to 1946. The Powder River Bridge is the last continuous span truss built by the highway department and the last truss bridge it constructed. All of the structural components and features common to the design are present on the bridge and are unchanged. The bridge retains its distinctive truss configuration, simple guardrails, and the original concrete deck. Other than the construction of nearby Interstate 94 in the 1970s, the setting of the bridge site has not significantly changed. The surrounding area is still used for agricultural purposes. The Powder River Bridge retains all its essential elements of design, workmanship, and materials. It appears and functions as it did beginning in 1946 as an important crossing of the Powder River on US Highway 10 in eastern Montana.

**8. Statement of Significance****Applicable National Register Criteria**

(Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing)

- ☒ A Property is associated with events that have made a significant contribution to the broad patterns of our history.
- ☐ B Property is associated with the lives of persons significant in our past.
- ☒ C Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.
- ☐ D Property has yielded, or is likely to yield, information important in prehistory or history.

**Criteria Considerations**

(Mark "x" in all the boxes that apply)

Property is:

- ☐ A owned by a religious institution or used for religious purposes.
- ☐ B removed from its original location.
- ☐ C a birthplace or grave.
- ☐ D a cemetery.
- ☐ E a reconstructed building, object, or structure.
- ☐ F a commemorative property.
- ☐ G less than 50 years old or achieving significance within the past 50 years.

**Areas of Significance**

(Enter categories from instructions)

Engineering

Transportation

**Period of Significance**

1946-1959

**Significant Dates**

1946

**Significant Person**

(Complete only if Criterion B is marked above)

**Cultural Affiliation****Architect/Builder**

Montana Department of Highways

William P. Roscoe Company

### **Period of Significance (justification)**

The Period of Significance for this structure is 1946 to 1959. That encompasses its construction date and the time it spent as a primary component on US Highway 10 in eastern Montana.

### **Criteria Considerations (explanation, if necessary)**

**Statement of Significance Summary Paragraph** (provide a summary paragraph that includes level of significance and applicable criteria)

The Powder River Bridge is eligible for listing on the National Register of Historic Places under Criteria A and C. The bridge is eligible under Criterion A because of its association with the national war effort during World War II to keep a strategic crossing open on a route important to the national defense. During the war, the Montana Highway Department's road and bridge construction programs were nascent because of shortages in oil, gasoline, steel and manpower. Because it was important to the national defense to keep the route (US Highway 10) between Minneapolis and Seattle open, the War Department approved the Montana Highway Department's plan in 1944 to construct a bridge across the Powder River in southeastern Montana. The story behind the construction of the Powder River Bridge is representative of the problems and triumphs of many state agencies and contractors hampered by wartime restrictions. The bridge also was culmination of the highway department's Great Depression-era programs to provide efficient and modern roads and bridges for both private use and commerce. The bridge is eligible for the National Register under Criterion C as the last and one of the most representative continuous through truss spans built in Montana by the highway department between 1933 and 1946. The bridge retains all of its original structural components, its historic appearance and essentially its historic function as an important river crossing in southeastern Montana. The bridge is intact and unchanged and conveys its historic appearance. Other than age and routine maintenance by highway forces, there are no substantial modifications or alterations to it.

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### **Narrative Statement of Significance** (provide at least **one** paragraph for each area of significance)

The Powder River Bridge is significant on a number of levels. It is the last of only eight continuous span steel through truss bridges constructed in Montana between 1933 and 1946 and is an excellent representative of the type. Indeed, it was the last through truss bridge built by the Montana Highway Department. The bridge was built from standardized designs developed by the Montana Highway Department in 1933 and adapted specifically for this site. Continuous through trusses became the standard highway department structure for wide river crossings in the 1930s and were utilized for that purpose until 1946. The bridge, moreover, was constructed during World War II when virtually all of the Montana State Highway Commission's road and bridge programs had been cancelled because of wartime restrictions. The bridge replaced an earlier structure that had been damaged; its location on a highway of strategic significance (U.S. Highway 10) was the catalyst that led to its construction during a time of wartime shortages in materials such as steel. The bridge is not only important for its location on a strategic highway during World War II, but was also significant to the development of agriculture in southeastern Montana and as an important component of Montana's primary east-west highway, US Highway 10.

The Powder River Bridge is also eligible for the National Register of Historic Places under Criterion C because it is a stunning and intact example of the type of standardized continuous Warren through truss spans that the Montana Highway Department built from 1933 to 1946. Continuous spans were used for river crossings more than 1,000-feet in width. The design was particularly adaptable to different crossing conditions and was easy to build and were affordable to the state. There have been no structural modifications to the bridge and vehicular collisions have not significantly damaged any important structural components. The bridge retains its historic appearance and configuration with all of its original structural components and features intact along with its association with US Highway 10. The bridge, moreover, still functions as an important crossing on what is now a recreational access route and farm-to-market road.

### **Engineering Significance**

In 1933, the Montana Highway Department began designing and constructing continuous span through truss span bridges during the Great Depression. The Powder River Bridge was the last bridge of this type and the last steel through truss structure built by the department. By the mid-1940s, steel girder bridges had become the standard river crossing because of its lack of height restrictions, heavier live load capacity, and more efficient use of funds to build. This bridge is exemplary of the continuous through truss type which was built primarily at wide river crossings. All but one of the continuous through truss bridges, including this one, were built by prolific Billings, Montana contractor William P. Roscoe. The continuous span bridge was well-suited to better accommodating traffic demands than the old multi-span riveted

Warren through trusses. Indeed, the style still accommodates modern traffic demands with three of the eight continuous spans still extant and functioning in their original capacity.

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**Developmental history/additional historic context information** (if appropriate)

Ten days after Pearl Harbor, on December 17, 1941, the Montana State Highway Commission authorized a survey for a new bridge across the Yellowstone River on US Highway 10 west of Terry. The new bridge was to replace an older structure that, the highway department felt, was close to failure. Earlier in 1941, the highway commission and the Bureau of Public Roads had designated US 10 as a highway critical to the national defense, thus making it eligible for funds during wartime. Within weeks, Joseph Maierle and three men were core drilling the river to find a suitable site for the bridge. Because of the paranoia associated with the Japanese attack on Pearl Harbor, the highway department was forced to provide a description of the drill crews to National Guardsmen patrolling the nearby Northern Pacific Railway bridge.<sup>2</sup>

The highway department proposed to construct a 653-foot steel and concrete bridge across the Powder River at an estimated cost of \$211,612.28. Because the war caused a shortage of the steel critical to the construction of the bridge, the department postponed plans to build the structure until the material was available again. By 1944, it had become clear that the Allies would win the war against the Axis powers and limited supplies of steel became available for domestic highway projects. On September 29, 1944, the highway commission awarded a contract to the Billings-based William P. Roscoe Company to construct the bridge across the Powder River southwest of Terry. The firm began work on the bridge in October 4, 1944. It obtained reinforcing steel for the abutments, deck, and piers from the Paper Calmenson Company of St. Paul, Minnesota and 461 tons of structure steel from the Pittsburgh-Des Moines Steel Company. The highway department's project engineer was J. M. Belle.<sup>3</sup>

Roscoe worked through the winter of 1944/45 through "generally adverse war-time conditions" to complete the bridge by the September 30, 1945 deadline imposed by the contract. To facilitate the work, he sub-contracted the construction of the approaches to the Omaha-based Inland Construction Company. The firm also hired the General Riggers & Erections Company of Slat Lake City to construct the rivet the cast and structural steel. The trusses were erected by May 7, 1945 and his employees began painting the structure within paint supplied by the Consumers Paint Manufacturing Company. Despite the rush to complete the bridge on time, Roscoe finished work on it 113 days late on January 21, 1946. He attributed the delay in completion of the project to a shortage of treated timber for the bridge's falsework and a delay in the removal of the old bridge at the site. The total cost of the bridge was \$224,789. It was one of eight continuous span bridges built in Montana – seven of which the Roscoe company constructed between 1931 and 1946. The Powder River Bridge was also the last through truss bridge in Montana by the Montana Highway Department.<sup>4</sup>

**William P. Roscoe Company**

Few men have had as big an impact on Montana's construction industry as William P. Roscoe. For thirty years from 1926 to 1956, Roscoe built more bridges in Montana than any other contractor employed by the Montana Highway Department. Although he specialized in the construction of large steel bridges, Roscoe also built reinforced concrete and timber bridges all over the state. Bridges built by his company include the Missouri River Bridge near Wolf Creek, and Yellowstone River bridges at Reed Point, Forsyth, and Glendive.<sup>5</sup>

Born in Wadena, Minnesota in February, 1886, William P. Roscoe dropped out of school in 1902 and worked in South Dakota as a cowboy for several years. In 1905, he returned to Minnesota and went to work for William and Arthur Hewett's Security Bridge Company. Unlike Montana's bridge engineers, who learned their trade in colleges and universities, the state's most successful bridge contractors learned their craft in the field from other bridge-builders. Roscoe went to work for the Hewett's as a laborer. Within a few years, he worked his way up to foreman and, by October,

(See continuation page)

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**9. Major Bibliographical References**

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<sup>2</sup> SN-FAP No. 158-C, Unit 2, hereafter referred to as SN-FAP no. 158-C, U2), Montana Highway Department Bridge Bureau Records, 1920-1985, Unprocessed Collection, Montana Historical Society Research Center, Helena; Jon Axline, *Conveniences Sorely Needed: Montana's Historic Highway Bridges, 1860-1956*, (Helena: Montana Historical Society, 2005), 107-108.

<sup>3</sup> SN-FAP No. 158-C, U2; Montana State Highway Commission Meeting Minutes, Book 9, 122-123 (September 29, 1944); Road Inventory: Bridge Condition Survey, SN-FAP 158-C (2), No Date.

<sup>4</sup> SN-FAP No. 158-C, U2; Axline, *Conveniences Sorely Needed*, 115.

<sup>5</sup> Axline, *Conveniences Sorely Needed*, 113-114.

Powder River Bridge  
Name of Property

Prairie County, Montana  
County and State

**Bibliography** (Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets)

**Previous documentation on file (NPS):**

☐ preliminary determination of individual listing (36 CFR 67 has been requested)  
☐ previously listed in the National Register  
☐ previously determined eligible by the National Register  
☐ designated a National Historic Landmark  
☐ recorded by Historic American Buildings Survey # \_\_\_\_\_  
☐ recorded by Historic American Engineering Record # \_\_\_\_\_

**Primary location of additional data:**

☐ State Historic Preservation Office  
☒ Other State agency  
☐ Federal agency  
☐ Local government  
☐ University  
☐ Other  
Name of repository: **Montana Department of Transportation**

Historic Resources Survey Number (if assigned): \_\_\_\_\_

**10. Geographical Data**

**Acreage of Property** 2  
(do not include previously listed resource acreage)

**UTM References**

(Place additional UTM references on a continuation sheet)

|   |                       |                          |                            |   |                       |                          |                           |
|---|-----------------------|--------------------------|----------------------------|---|-----------------------|--------------------------|---------------------------|
| 1 | <u>13</u><br>Zone     | <u>467310</u><br>Easting | <u>5175800</u><br>Northing | 3 | <u>      </u><br>Zone | <u>      </u><br>Easting | <u>      </u><br>Northing |
| 2 | <u>      </u><br>Zone | <u>      </u><br>Easting | <u>      </u><br>Northing  | 4 | <u>      </u><br>Zone | <u>      </u><br>Easting | <u>      </u><br>Northing |

**Verbal Boundary Description** (describe the boundaries of the property)

The boundary for the Powder River Bridge is a rectangle 633 x 25 feet. The rectangle encompasses the bridge and its approaches on both sides of the Powder River. The boundary is centered on the bridge.

**Boundary Justification** (explain why the boundaries were selected)

Boundaries for the Powder River Bridge are drawn to encompass the five spans of the bridge, its immediate approaches and that portion of the Powder River spanned by the bridge. The width is increased beyond the measurements of the structure to include the piers and abutments.

**11. Form Prepared By**

name/title Jon Axline/Historian  
organization Montana Department of Transportation date May 13, 2009  
street & number 2701 Prospect Avenue telephone (406) 444-6258  
city or town Helena state MT zip code 59620-1001  
e-mail jaxline@mt.gov

Powder River Bridge  
Name of Property

Prairie County, Montana  
County and State

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### Additional Documentation

Submit the following items with the completed form:

- **Maps:** A **USGS map** (7.5 or 15 minute series) indicating the property's location.

A **Sketch map** for historic districts and properties having large acreage or numerous resources. Key all photographs to this map.

- **Continuation Sheets**
- **Additional items:** (Check with the SHPO or FPO for any additional items)

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### Photographs:

Submit clear and descriptive black and white photographs. The size of each image must be 1600x1200 pixels at 300 ppi (pixels per inch) or larger. Key all photographs to the sketch map.

(See continuation pages)

**Paperwork Reduction Act Statement:** This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C.460 et seq.).

**Estimated Burden Statement:** Public reporting burden for this form is estimated to average 18 hours per response including time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to the Chief, Administrative Services Division, National Park Service, PO Box 37127, Washington, DC 20013-7127; and the Office of Management and Budget, Paperwork Reductions Project (1024-0018), Washington, DC 20503.



## National Register of Historic Places Continuation Sheet

Name of Property: Powder River Bridge (24PE1810)

County and State: Prairie County, Montana

Name of multiple property listing (if applicable)  
Montana's Historic Steel Truss Bridges

Section number 8

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1915, was the company's vice president when the Hewett's moved Security's headquarters to Billings. Roscoe continued his association with the Security Bridge Company until 1925, when he formed the W. P. Roscoe Company in Billings. William and Arthur Hewett dissolved the Security Bridge Company in 1926.<sup>6</sup>

During his thirty year career, the Roscoe company built bridges throughout Montana and was one of only contractors from which the highway department bridge engineers sought advice on construction problems. Bill Roscoe died in 1956. Soon after his death, Roscoe's family reorganized the company and formed Roscoe Steel and Culvert Company. Although the company no longer builds bridges, it still provides components for steel bridges in Montana and United States.<sup>7</sup>

<sup>6</sup> Tom Stout, *Montana: Its Story and Biography*, Volume 2 (Chicago: American Historical Society, 1921), 221-222; Fredric Quivik, *Historic Bridges of Montana*, (Washington DC: National Park Service, 1982), 43.

<sup>7</sup> Interview with Jim Roscoe by author, April 2004; Quivik, *Historic Bridges*, 43.

## National Register of Historic Places Continuation Sheet

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### **Bibliography**

Alt, David and Donald W. Hyndman, *Roadside Geology of Montana*. (Missoula: Mountain Press Publishing, 1991).

Axline, Jon. *Conveniences Sorely Needed: Montana's Historic Highway Bridges, 1860 - 1956*. (Helena: Montana Historical Society, 2005).

Bridge Inspection File No. L40004006+02001. Montana Department of Transportation, Helena.

Interview with Jim Roscoe, Grandson of William P. Roscoe, by Jon Axline, Montana Department of Transportation, March 2004.

Quivik, Fredric. *Historic Bridges of Montana*. (Washington DC: National Park Service, 1982).

State Highway Commission Meeting Minutes. Book 9. Montana Department of Transportation, Helena.

Stout, Tom. *Montana: Its Story and Biography*. Three volumes (Chicago: American Historical Society, 1921).

National Register of Historic Places Continuation Sheet

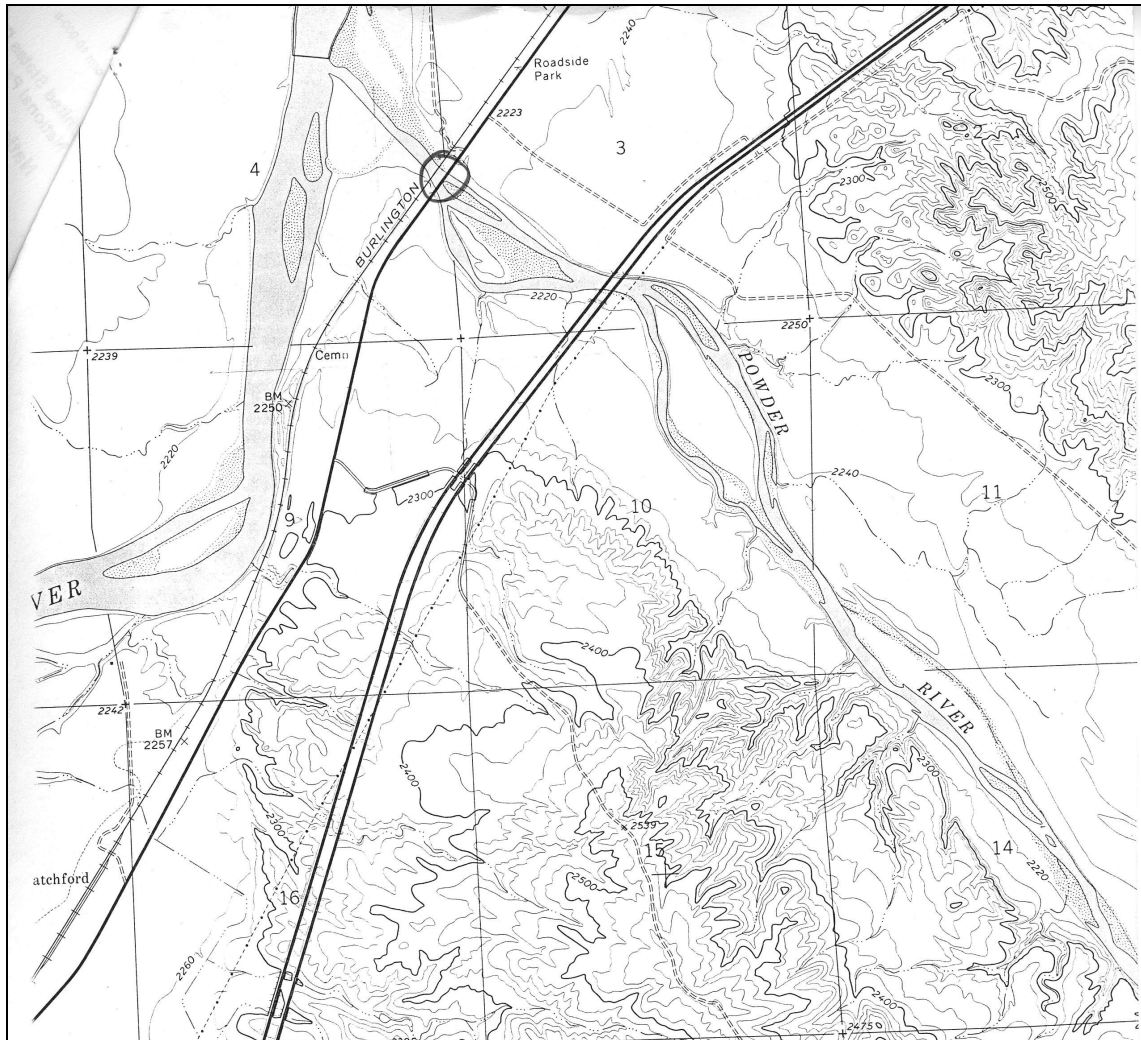
Name of Property: Powder River Bridge (24PE1810)

County and State: Prairie County, Montana

Name of multiple property listing (if applicable)  
Montana's Historic Steel Truss Bridges

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Location of Powder River Bridge

United States Department of the Interior  
National Park Service

National Register of Historic Places Continuation Sheet

Name of Property: Powder River Bridge (24PE1810)

County and State: Prairie County, Montana

Name of multiple property listing (if applicable)  
Montana's Historic Steel Truss Bridges

Photographs

Page 1

Name: Powder River Bridge (24PE1810)  
County and State: Prairie County, Montana  
Photographer: Mike Patch  
Date of Photograph: December 2008  
Location of original negative: Montana Department of Transportation. Helena, Montana.  
Description and view of camera: South profile of truss spans. View to the northwest.  
Photograph: 0001

Name: Powder River Bridge (24PE1810)  
County and State: Prairie County, Montana  
Photographer: Mike Patch  
Date of Photograph: December 2008  
Location of original negative: Montana Department of Transportation. Helena, Montana.  
Description and view of camera: East portal. View to the west.  
Photograph: 0002

National Register of Historic Places Continuation Sheet

Name of Property: Powder River Bridge (24PE1810)

County and State: Prairie County, Montana

Name of multiple property listing (if applicable)  
Montana's Historic Steel Truss Bridges

Photographs

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Photograph 0001. Powder River Bridge. South profile. View to the northwest.

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Name of Property: Powder River Bridge (24PE1810)

County and State: Prairie County, Montana

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Photographs

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Photograph 0002. Powder River Bridge. East portal. View looking west.

